

14042 U.S. PTO  
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### **FIELD OF INVENTION**

This invention relates to a step ladder or extension ladder with adjustable length legs in an up and down adjustment position that prior arts do not have. New features are all explained in the claims of this document.

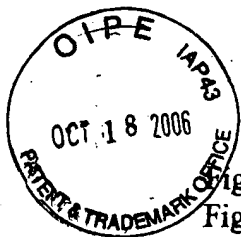
Features

### **SUMMARY OF INVENTION**

This invention is a more realistic and safer ladder for the user than prior arts.

### **DESCRIPTION OF DRAWINGS**

- Figure 1 - Shows the new art in its entirety.
- Figure 1A - Shows the handles and the cable that replace the adjustable feet of the apparatus.
- Figure 2 - Depicts the adjusting mechanism in relation to the ladder legs and the motion direction of the adjusting levers.
- Figure 3- Tells us the location and the function of the ladder leg-leveling device.
- Figure 4- Demonstrates the extra service the top step gives us with a slide out tool tray, a handy tack well and hammer holed a place for two screw drivers and a port for a pair of pliers
- Figure 5- Allows us to see how a new simple warning device can save accidents by telling the user there is another step below to step on before touching the ground below and getting off the ladder completely.



## DESCRIPTION OF PREFERRED EMBODIMENT

- Figure 1- Displays the new art in its entirety.
- Figure 1A- Shows the right front leg F1 A- 4 with adjustments levers F 1A 7- 8-
- Figure 2- Depicts step F2-16 front step and assure the ladder will not fold F2 5) back leg, Fig2 6 with hinged brace F2-6 that holds the legs apart to That holds the front leg and back legs apart when the ladder is standing open or in use.
- Figure 3- Back leg (5) cross brace (11). Tells us about the leg adjustment apparatus 10-12-18-19- F3 10 is the foot 12- is the adjustment cable cable 18 is the flat bar that is the (up -down holding adjustment 19 is the release lever of 18 that has the up and down movement for the leg that will level the ladder and make it safe to climb.
- Figure 4- Makes for showing the extra conveniences the new arts displayed ( F 4 1 top of ladder) ( F4 2 slide out service ) (20 tray tack well ) (25 hammer hole )(26 two screwdrivers holes (27 pliers port).
- Figure 5- Displays 3 steps (26-27-28) as they are anchored to the legs (4) with 90 degree angle anchors (25) holding all steps to the leg. Figure also shows the safety assembly device No, 14-trip wire ,when stepped on It pulls 15-to hit 13 the bell which is the alarm bell



EASY CLIMB

**Flow Chart For**  
**Adjustable Safety Ladder**

1. Top Step Page 1-Fig. 1-1
2. Pull Out Service Tray Page 3-Fig.4-2 Page 1-Fig. 1-2
3. Fold Out Hinged Shelf Page 1-Fig. 1-3
4. Front Leg of Ladder Page 1-Fig. 1-4
5. Rear Leg of Ladder Page 1-Fig. 1-5
6. Upper Rear Leg brace Page 1-Fig. 1-6
7. Hinged Leg Brace Page 1-Fig. 1-7-A-7
8. Adjusting cable levers Page 1-Fig. 1-8  
Page 1-Fig. 1- A-8
9. Front Feet (adjustable)(Up-Down) Page 1-Fig. 1-9
10. Rear Feet (adjustable) (Up-Down) Page 1-Fig. 1-10
11. Rear Legs Cross Brace Page 1-Fig.11  
Page 1-Fig.2-11
12. Adjusting Cable Page 1-Fig.1-12-12A
13. One More Step Warning Bell Page 1 Fig.1-13 Page 2-Fig. 2A-15
14. Safety Bell Trip Cable Page 1 Fig.1- 14 Page3-Fig.5-14
15. Safety Bell Clapper Page 3-Fig.5-15
16. Bottom Step Page 1 Fig.1-16 Page 2-Fig.2- A16. ✓
17. Bottom of Leg Reinforcement Block Page 3-Fig.3-17
18. Vertical (Up-Down) Adjusting Slide Bar Page 3-Fig.3-18
19. Up-Down Pressure Adjusting Bar Page 3-Fig.3-19